

09/754253

ABSTRACT OF THE DISCLOSURE

An image pickup device includes a pair of first and second substrate facing each other with a vacuum space interposed therebetween, and a plurality of electron-emitting devices provided over said first substrate and a photoconductive layer provided over said second substrate. Each electron-emitting device includes an insulating layer deposited over an electron source layer formed over an ohmic electrode; and a metal thin film electrode deposited over said insulating layer. The insulating layer and said metal thin film electrode have an island region of electron-emitting section in which their film thicknesses are gradually reduced toward said electron source layer.